

Lab Session 8 **ArcView – DIGITIZING & EDITING**

- Working directory: *D:\AT7601\your_dir*
- Data available
 - Paper Map
 - Attribute Tables on paper

1. Digitizing

- Setup digitizing tablet
Programs -> Calcomp -> Tablet Work Control Panel
 - Prepare paper map and fix it on the digitizing tablet
 - Start Arcview. Load Extension *Digitizer*
 - Open the New View. Setup Map Projection in View Properties
 - Register View -> Digitizer Setup
Setup the unit (meters or degree)
Use Cursor to input at least 4 tie points.
Input the real geographic coordinate of these points in the box.
The RMS error will be calculated. If it is smaller than limit, we can register.
Otherwise, we have to input or change the coordinate of these tie points again
 - Start digitizing by Add the New theme. It can be point, line or polygon theme
Each theme is accompanied by its attribute table. We can input attribute data simultaneously or after finishing digitizing.
 - Input attribute data. Go to Table interface and select Edit tool.
Some operations
 - Add and delete field
 - Add and delete record
 - Find, Query, Sort and so on.
 - Save our theme after finishing digitizing
- Note: in the case we can not finish digitizing in one session. In the next one, we have to register again to continue digitizing

2. Editing

This part concern in spatial data editing

- **Editing point theme**
 - ◇ Create new point features
 - ◇ Delete point features
 - ◇ Cut and paste point features
 - ◇ Move point features
 - **Editing line theme**
 - ◇ Create new line features
 - ◇ Delete line features
 - ◇ Cut and paste line features
 - ◇ Move line features
 - ◇ Resize line features
 - ◇ Reshape line features (Vertex tool)
 - ◇ Split line features (Line Split tool)
 - ◇ Merge line features (Edit menu -> Union Features)
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- **Editing polygon theme**
 - ◇ Create new polygon features
 - ◇ Delete polygon features
 - ◇ Cut and paste polygon features
 - ◇ Move polygon features
 - ◇ Resize polygon features
 - ◇ Reshape polygon features
 - ◇ Split polygon features (Polygon split tool)
 - ◇ Merge polygon features (Edit menu -> Union Features)
 - ◇ Create doughnut polygons (Edit menu -> Combine Features)
 - ◇ Remove area of overlap between polygons (Edit menu -> Subtract Features)
 - ◇ Obtain the intersection of polygons (Edit menu -> Intersect Features)